

Table of Common Cations

Ammonium		NH ₄ ⁺	Niobium (III)		Nb ³⁺
Antimony (III)		Sb ³⁺	Niobium (V)		Nb ⁵⁺
Antimony (V)		Sb ⁵⁺	Osmium (IV)		Os ⁴⁺
Bismuth (III)		Bi ³⁺	Palladium (II)		Pd ²⁺
Bismuth (V)		Bi ⁵⁺	Palladium (IV)		Pd ⁴⁺
Cadmium		Cd ²⁺	Phosphonium		PH ₄ ⁺
Cerium (III)		Ce ³⁺	Platinum (II)		Pt ²⁺
Chromium (II)	chromous	Cr ²⁺	Platinum (IV)		Pt ⁴⁺
Chromium (III)	chromic	Cr ³⁺	Plutonium (III)		Pu ³⁺
Cobalt (II)	cobaltous	Co ²⁺	Polonium (II)		Po ²⁺
Cobalt (III)	cobaltic	Co ³⁺	Polonium (IV)		Po ⁴⁺
Copper (I)	cuprous	Cu ⁺	Protactinium (IV)		Pa ⁴⁺
Copper (II)	cupric	Cu ²⁺	Protactinium (V)		Pa ⁵⁺
Fluoronium		H ₂ F ⁺	Ruthenium (III)		Ru ³⁺
Gallium (III)		Ga ³⁺	Ruthenium (IV)		Ru ⁴⁺
Gold (I)	aurous	Au ⁺	Samarium (III)		Sm ³⁺
Gold (III)	auric	Au ³⁺	Scandium		Sc ³⁺
Hafnium		Hf ⁴⁺	Silver		Ag ⁺
Hydronium		H ₃ O ⁺	Tantalum		Ta ⁵⁺
Iridium (IV)		Ir ⁴⁺	Terbium (IV)		Tb ⁴⁺
Iron (II)	ferrous	Fe ²⁺	Thallium (I)		Tl ⁺
Iron (III)	ferric	Fe ³⁺	Thallium (III)		Tl ³⁺
Lanthium		La ³⁺	Tin (II)	stannous	Sn ²⁺
Lead (II)	plumbous	Pb ²⁺	Tin (IV)	stannic	Sn ⁴⁺
Lead (IV)	plumbic	Pb ⁴⁺	Titanium (III)		Ti ³⁺
Manganese (II)	manganous	Mn ²⁺	Titanium (IV)		Ti ⁴⁺
Manganese (IV)		Mn ⁴⁺	Tungsten (VI)		W ⁶⁺
Mercury (I)	mercurous	Hg ₂ ²⁺	Uranium (IV)		U ⁴⁺
Mercury (II)	mercuric	Hg ²⁺	Uranium (VI)		U ⁶⁺
Neptunium (V)		Np ⁵⁺	Vanadium (III)		V ³⁺
Molybdenum (IV)		Mo ⁴⁺	Vanadium (V)		V ⁵⁺
Molybdenum (VI)		Mo ⁶⁺	Yttrium		Y ³⁺
Nickel (II)		Ni ²⁺	Zinc		Zn ²⁺
Nickel (III)		Ni ³⁺	Zirconium		Zr ⁴⁺

Table of Polyatomic Ions

acetate	CH_3COO^- or $\text{C}_2\text{H}_3\text{O}_2^-$	fluorite	FO_2^-	perchlorate	ClO_4^-
		formate	HCOO^-	periodate	IO_4^-
ammonium	NH_4^+	germanate	GeO_3^{2-}	permanganate	MnO_4^-
arsenate	AsO_4^{3-}	glutamate	$\text{C}_5\text{H}_8\text{NO}_4^-$	peroxide	O_2^{2-}
arsenite	AsO_3^{3-}	hexachloroplatinate	PtCl_6^{2-}	peroxydisulfate	$\text{S}_2\text{O}_8^{2-}$
barbital	$\text{C}_8\text{H}_{11}\text{N}_2\text{O}_3^-$	hexafluorosilicate	SiF_6^{2-}	phosphate	PO_4^{3-}
benzoate	$\text{C}_6\text{H}_5\text{COO}^-$	hydrogen carbonate	HCO_3^-	phthalate	$\text{C}_8\text{H}_4\text{O}_4^{2-}$
bismuthate	BiO_3^-	or bicarbonate		pyrophosphate	$\text{P}_4\text{O}_7^{4-}$
borate	BO_3^{3-}	hydrogen oxalate	HC_2O_4^-	selenate	SeO_4^{2-}
bromate	BrO_3^-	hydrogen phosphate	HPO_4^{2-}	silicate	SiO_3^{2-}
carbonate	CO_3^{2-}	hydrogen phosphite	HPO_3^{2-}	stearate	$\text{C}_{17}\text{H}_{35}\text{COO}^-$
chlorate	ClO_3^-	hydrogen sulfate	HSO_4^-	sulfate	SO_4^{2-}
chlorite	ClO_2^-	or bisulfate		sulfite	SO_3^{2-}
chromate	CrO_4^{2-}	hydrogen sulfite	HSO_3^-	tartrate	$\text{C}_4\text{H}_4\text{O}_6^{2-}$
citrate	$\text{C}_6\text{H}_5\text{O}_7^{3-}$	or bisulfite		tellurate	TeO_4^{2-}
cyanamide	HCN^-	hydronium	H_3O^+	tetraborate	$\text{B}_4\text{O}_7^{2-}$
cyanate	OCN^- or CNO^-	hydroxide	OH^-	thiocyanate	SCN^-
cyanide	CN^-	hypochlorite	ClO^-	thiosulfate	$\text{S}_2\text{O}_3^{2-}$
dichromate	$\text{Cr}_2\text{O}_7^{2-}$	iodate	IO_3^-	tripolyphosphite	$\text{P}_3\text{O}_{10}^{5-}$
dihydrogen phosphate	H_2PO_4^-	lactate	$\text{C}_3\text{H}_5\text{O}_3^-$	tungstate	WO_4^{2-}
dihydrogen phosphite	H_2PO_3^-	molybdate	MoO_4^{2-}	uranate	UO_4^-
ferricyanide	$\text{Fe}(\text{CN})_6^{3-}$	nitrate	NO_3^-	vandate	VO_3^-
ferrocyanide	$\text{Fe}(\text{CN})_6^{4-}$	nitrite	NO_2^-		
ferrorcyanate	FeSCN^{2+}	oxalate	$\text{C}_2\text{O}_4^{2-}$		

Activity Series
Li
K
Rb
Ba
Sr
Ca
Na
Am
La
Y
Mg
Ce
Sc
Pu
Np
Th
Be
U
Al
Ti
V
Mn
Cr
Zn
Ga
Fe
Eu
Cd
In
Co
Ni
Sn
Pb

H
Sb
As
Bi
Cu
Nd
Hg
Ag
Pd
Pt
Au

Will replace hydrogen from acids only

H 2.1																	He
Li 1.0	Be 1.5	<u>Electronegativity</u>										B 2.0	C 2.5	N 3.0	O 3.5	F 4.0	Ne
Na 0.9	Mg 1.2											Al 1.5	Si 1.8	P 2.1	S 2.5	Cl 3.0	Ar
K 0.8	Ca 1.0	Sc 1.3	Ti 1.5	V 1.6	Cr 1.6	Mn 1.5	Fe 1.8	Co 1.8	Ni 1.8	Cu 1.9	Zn 1.6	Ga 1.6	Ge 1.8	As 2.0	Se 2.4	Br 2.8	Kr
Rb 0.8	Sr 1.0	Y 1.3	Zr 1.4	Nb 1.6	Mo 1.8	Tc 1.9	Ru 2.2	Rh 2.2	Pd 2.2	Ag 1.9	Cd 1.7	In 1.7	Sn 1.8	Sb 1.9	Te 2.1	I 2.5	Xe
Cs 0.7	Ba 0.9		Hf 1.3	Ta 1.5	W 1.7	Re 1.9	Os 2.2	Ir 2.2	Pt 2.2	Au 2.4	Hg 1.9	Tl 1.8	Pb 1.8	Bi 1.9	Po 2.0	At 2.2	Rn
Fr 0.7	Ra 0.9		Rf	Db	Sg	Br	Hs	Mt	Uun	Uuu	Uub						

La 1.1	Ce 1.1	Pr 1.1	Nd 1.2	Pm 1.1	Sm 1.2	Eu 1.2	Gd 1.1	Tb 1.2	Dy 1.2	Ho 1.2	Er 1.2	Tm 1.2	Yb 1.1	Lu 1.2
Ac 1.1	Th 1.3	Pa 1.5	U 1.7	Np 1.3	Pu 1.3	Am 1.3	Cm 1.3	Bk 1.3	Cf 1.3	Es 1.3	Fm 1.3	Md 1.3	No 1.3	Lr